

ABSTRACT

**TRACK-FOLLOWING SYSTEM FOR THE RECORDING/READING OF A
DATA MEDIUM AND RECORDING MEDIUM**

The invention relates to a system for reading a magnetic medium having several tracks of data which can be read in parallel, and comprising a detection device having at least as many detectors as there are tracks, making it possible to read simultaneously and at regular intervals a sample of data on each track. This system furthermore comprises:

- ◆ a processing circuit (M1) receiving each sample of data (x_1) to be processed from each track, together with sample ($x_{(1-1)}$) of a first adjacent track and the sample ($x_{(1+1)}$) of a second adjacent track, and calculating the cross-talk affecting the sample of data to be processed due to the adjacent tracks;
- ◆ an integration circuit (I1) receiving the cross-talk value thus calculated, integrating said values obtained at each read time, then integrating the values obtained at following read times;
- ◆ a relative track-following control circuit (CR) receiving the result of integration of the integrator circuit (I1) and supplying a track-following control signal for the detection device.

Application: System for reading high-density magnetic tapes.

FIGURE 5

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